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<u>#14</u> Search hydroxylate asparagine	14:52:05	<u>5</u>
<u>#10</u> Search hydroxylation and asparagine	14:48:00	<u>78</u>
<u>#5</u> Search #3 and structure	14:21:25	<u>6</u>
<u>#8</u> Search Hewitson nd 26351	13:30:48	<u>0</u>
<u>#7</u> Search Hewitsona nd 26351	13:30:17	<u>0</u>
<u>#4</u> Search #3 and crystal	13:16:19	<u>3</u>
<u>#3</u> Search asparaginyll hydroxylase	13:16:07	<u>55</u>
<u>#1</u> Search FIH and crystal	13:15:21	<u>6</u>

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10/531662

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(FILE 'HOME' ENTERED AT 15:04:46 ON 23 JUL 2007)

FILE 'CAPLUS' ENTERED AT 15:05:01 ON 23 JUL 2007

L1 95 S FIH
L2 63 S ASPARAGINYL HYDROXYLASE
L3 13 S L1 AND CRYSTAL
L4 8 S L2 AND CRYSTAL
L5 8 S L3 AND L4

=> d L5 1-8

L5 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2007:91493 CAPLUS
DN 146:268875
TI Structural and Mechanistic Studies on the Inhibition of the
Hypoxia-inducible Transcription Factor Hydroxylases by Tricarboxylic Acid
Cycle Intermediates
AU Hewitson, Kirsty S.; Lienard, Benoit M. R.; McDonough, Michael A.;
Clifton, Ian J.; Butler, Danica; Soares, Alexie S.; Oldham, Neil J.;
McNeill, Luke A.; Schofield, Christopher J.
CS Department of Chemistry, University of Oxford, Oxford, OX1 3TA, UK
SO Journal of Biological Chemistry (2007), 282(5), 3293-3301
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:602566 CAPLUS
DN 145:467222
TI Modeling dioxygen binding to the non-heme iron-containing enzymes
AU Nemukhin, A. V.; Grigorenko, B. L.; Topol, I. A.; Burt, S. K.
CS Department of Chemistry, M. V. Lomonosov Moscow State University, Moscow,
119992, Russia
SO International Journal of Quantum Chemistry (2006), 106(10), 2184-2190
CODEN: IJQCB2; ISSN: 0020-7608
PB John Wiley & Sons, Inc.
DT Journal
LA English
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:192616 CAPLUS
DN 144:307289
TI Quantum Chemical Modeling of Reaction Mechanism for 2-Oxoglutarate-
Dependent Enzymes: Effect of Substitution of Iron by Nickel and Cobalt
AU Topol, Igor A.; Nemukhin, Alexander V.; Salnikow, Konstantin; Cachau, Raul
E.; Abashkin, Yuri G.; Kasprzak, Kazimierz S.; Burt, Stanley K.
CS Advanced Biomedical Computing Center, SAIC Frederick, National Cancer
Institute at Frederick, Frederick, MD, 21702, USA
SO Journal of Physical Chemistry A (2006), 110(12), 4223-4228
CODEN: JPACFH; ISSN: 1089-5639
PB American Chemical Society
DT Journal
LA English

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:391304 CAPLUS
DN 143:92914
TI Selective Inhibition of Factor Inhibiting Hypoxia-Inducible Factor
AU McDonough, Michael A.; McNeill, Luke A.; Tilliet, Melanie; Papamicaeel, Cyril A.; Chen, Qiu-Yun; Banerji, Biswadip; Hewitson, Kirsty S.; Schofield, Christopher J.
CS Department of Chemistry and the Oxford Centre for Molecular Sciences, Chemistry Research Laboratory, University of Oxford, Oxford, OX1 3TA, UK
SO Journal of the American Chemical Society (2005), 127(21), 7680-7681
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 143:92914

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:900659 CAPLUS
DN 142:350967
TI Factor inhibiting hypoxia-inducible factor (FIH) and other asparaginyl hydroxylases
AU Lancaster, D. E.; McDonough, M. A.; Schofield, C. J.
CS Chemistry Research Laboratory, Department of Chemistry, Oxford Centre for Molecular Sciences, Oxford, OX1 3TA, UK
SO Biochemical Society Transactions (2004), 32(6), 943-945
CODEN: BCSTB5; ISSN: 0300-5127
PB Portland Press Ltd.
DT Journal; General Review
LA English

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:355105 CAPLUS
DN 140:387803
TI Crystal structure of human asparaginyl hydroxylase FIH-1, HIF interaction with FIH-1, and applications in drug screening and design
IN Ratcliffe, Peter John; Pugh, Christopher William; Schofield, Christopher Joseph; Hewitson, Kirsty Sarah; Elkins, Jonathan Mark
PA Isis Innovation Limited, UK
SO PCT Int. Appl., 289 pp.
CODEN: PIXXD2
DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2004035812	A2	20040429	WO 2003-GB4492	20031016
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	CA 2502541	A1	20040429	CA 2003-2502541	20031016
	AU 2003274330	A1	20040504	AU 2003-274330	20031016
	EP 1554394	A2	20050720	EP 2003-758318	20031016
	JP 2006504415	T	20060209	JP 2004-544485	20031016
	MX 2005PA04033	A	20050608	MX 2005-PA4033	20050415
	US 2007048728	A1	20070301	US 2005-531662	20051021
PRAI	GB 2002-24102	A	20021016		
	GB 2002-26598	A	20021114		

WO 2003-GB4492	W	20031016
WO 2003-GR4492	W	20031016

OS MARPAT 140:387803

L5 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:146174 CAPLUS
DN 138:381053
TI Structure of Human FIH-1 Reveals a Unique Active Site Pocket and
Interaction Sites for HIF-1 and von Hippel-Lindau
AU Lee, Cheolju; Kim, Seung Jun; Jeong, Dae Gwin; Lee, Soon Mi; Ryu, Seong
Eon
CS Center for Cellular Switch Protein Structure, Korea Research Institute of
Bioscience and Biotechnology, Daejeon, 305-806, S. Korea
SO Journal of Biological Chemistry (2003), 278(9), 7558-7563
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English

RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:3846 CAPLUS
DN 138:283262
TI Structure of factor-inhibiting hypoxia-inducible factor 1: an
asparaginyl hydroxylase involved in the hypoxic response
pathway
AU Dann, Charles E., III; Bruick, Richard K.; Deisenhofer, Johann
CS Howard Hughes Medical Institute and Department of Biochemistry, University
of Texas Southwestern Medical Center, Dallas, TX, 75390, USA
SO Proceedings of the National Academy of Sciences of the United States of
America (2002), 99(24), 15351-15356
CODEN: PNASA6; ISSN: 0027-8424
PB National Academy of Sciences
DT Journal
LA English

RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
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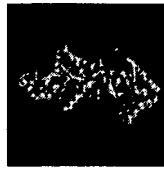
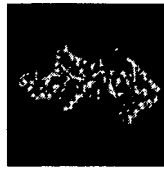
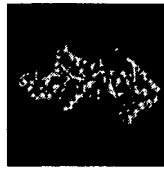

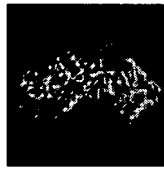
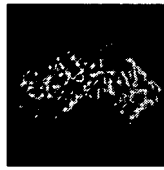
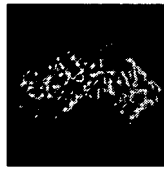

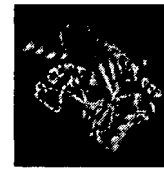
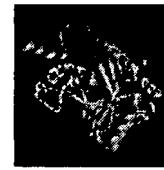
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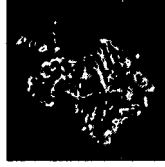
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1	
<input checked="" type="checkbox"/> 1vrb	
Crystal structure of Putative asparaginyl hydroxylase (2636534) from Bacillus subtilis at 2.60 Å resolution	
Release Date: 15-Mar-2005 Exp. Method: X Ray Diffraction Resolution: 2.60 Å	
Oxidoreductase	
Polymer: 1 Molecule: Putative asparaginyl hydroxylase Chains: A,B,C,D	
Joint Center for Structural Genomics (JCSG)	
Factor inhibiting HIF-1 alpha in complex with N-(carboxycarbonyl)-D-phenylalanine	
Release Date: 31-May-2005 Exp. Method: X Ray Diffraction Resolution: 2.70 Å	
Transcription Regulator Oxidoreductase	
Polymer: 1 Molecule: Hypoxia-inducible factor 1 alpha inhibitor Chains: A EC no.: 1.14.11.16	
McDonough, M.A., McNeill, L.A., Tilliet, M., Papamicael, C.A., Chen, Q.Y., Banerji, B., Hewitson, K.S., Schofield, C.J.	
FACTOR INHIBITING HIF-1 ALPHA	
Release Date: 28-Nov-2002 Exp. Method: X Ray Diffraction Resolution: 2.84 Å	
Transcription Activator/inhibitor	
Polymer: 1 Molecule: FACTOR INHIBITING HIF1 Chains: A	
Elkins, J.M., Hewitson, K.S., McNeill, L.A., Seibel, J.F., Schlemminger, I., Pugh, C.W., Ratcliffe, P.J., Schofield, C.J.	
FACTOR INHIBITING HIF-1 ALPHA WITH SUCCINATE	
Release Date: 13-Dec-2006 Exp. Method: X Ray Diffraction Resolution: 2.40 Å	

	Classification	Oxidoreductase
	Compound	Polymer: 1 Molecule: HYPOXIA-INDUCIBLE FACTOR 1 ALPHA INHIBITOR Chains: A EC no.: 1.14.11.16 
	Authors	Hewitson, K., Lienard, B., Mcdonough, M.A., Clifton, I.J., Butler, D., Soares, A.S., Oldham, N.J., Mcneill, L.A., Schofield, C.J.
<input checked="" type="checkbox"/> 2cgo	 Characteristics	FACTOR INHIBITING HIF-1 ALPHA WITH FUMARATE Release Date: 13-Dec-2006 Exp. Method: X Ray Diffraction Resolution: 2.30 Å
	Classification	Oxidoreductase
	Compound	Polymer: 1 Molecule: HYPOXIA-INDUCIBLE FACTOR 1 ALPHA INHIBITOR Chains: A EC no.: 1.14.11.16 
	Authors	Hewitson, K., Lienard, B., Mcdonough, M.A., Clifton, I.J., Butler, D., Soares, A.S., Oldham, N.J., Mcneill, L.A., Schofield, C.J.
<input checked="" type="checkbox"/> 1mze	 Characteristics	Human Factor Inhibiting HIF (FIH1) Release Date: 20-Nov-2002 Exp. Method: X Ray Diffraction Resolution: 2.20 Å
	Classification	Oxidoreductase
	Compound	Polymer: 1 Molecule: factor inhibiting HIF1 Chains: A
	Authors	Dann III, C.E., Bruick, R.K., Deisenhofer, J.
<input checked="" type="checkbox"/> 1mzf	 Characteristics	Human Factor inhibiting HIF (FIH1) in Complex with 2-oxoglutarate Release Date: 20-Nov-2002 Exp. Method: X Ray Diffraction Resolution: 2.40 Å
	Classification	Oxidoreductase
	Compound	Polymer: 1 Molecule: factor inhibiting HIF1 Chains: A
	Authors	Dann III, C.E., Bruick, R.K., Deisenhofer, J.
<input checked="" type="checkbox"/> 1h2l	 Characteristics	FACTOR INHIBITING HIF-1 ALPHA IN COMPLEX WITH HIF-1 ALPHA FRAGMENT PEPTIDE Release Date: 28-Nov-2002 Exp. Method: X Ray Diffraction Resolution: 2.25 Å
	Classification	Transcription Activator/inhibitor
	Compound	Polymer: 1 Molecule: FACTOR INHIBITING HIF1 Chains: A Polymer: 2 Molecule: HYPOXIA-INDUCIBLE FACTOR 1ALPHA Fragment: C-TERMINAL TRANSACTIVATION DOMAIN FRAGMENT RESIDUES 786-826 Chains: S

Authors

Elkins, J.M., Hewitson, K.S., Mcneill, L.A., Seibel, J.F., Schlemminger, I., Pugh, C.W., Ratcliffe, P.J., Schofield, C.J.

☒ 1h2m


**FACTOR INHIBITING HIF-1 ALPHA IN COMPLEX WITH HIF-1 ALPHA
FRAGMENT PEPTIDE**

Release Date: 28-Nov-2002 Exp. Method: X Ray Diffraction

Resolution: 2.50 Å

Characteristics**Classification****Compound**

Polymer: 1 Molecule: FACTOR INHIBITING HIF1 Chains: A
Polymer: 2 Molecule: HYPOXIA-INDUCIBLE FACTOR 1 ALPHA Fragment: C-
TERMINAL TRANSACTIVATION DOMAIN FRAGMENT RESIDUES 775 - 826
Chains: S

Authors

Elkins, J.M., Hewitson, K.S., Mcneill, L.A., Seibel, J.F., Schlemminger, I., Pugh, C.W., Ratcliffe, P.J., Schofield, C.J.

☒ 1h2k


**FACTOR INHIBITING HIF-1 ALPHA IN COMPLEX WITH HIF-1 ALPHA
FRAGMENT PEPTIDE**

Release Date: 28-Nov-2002 Exp. Method: X Ray Diffraction

Resolution: 2.15 Å

Characteristics**Classification****Compound**

Polymer: 1 Molecule: FACTOR INHIBITING HIF1 Chains: A
Polymer: 2 Molecule: HYPOXIA-INDUCIBLE FACTOR 1 ALPHA Fragment: C-
TERMINAL TRANSACTIVATION DOMAIN FRAGMENT RESIDUES 786-826
Chains: S

Authors

Elkins, J.M., Hewitson, K.S., Mcneill, L.A., Seibel, J.F., Schlemminger, I., Pugh, C.W., Ratcliffe, P.J., Schofield, C.J.

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